IAP 15 Rec'd PCT/PTO 07 SEP 2006

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/FO/LIS)

ATTORNEY'S DOCKET NUMBER 1455-062610

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371					
	TIONAL APPLICATION NO. 2005/000650	INTERNATIONAL FILING DATE 09 March 2005	PRIORITY DATE CLAIMED 09 March 2004		
·	INVENTION -AREA SHOWER ELECTRON B	EAM IRRADIATOR WITH FIELD EMIT	TERS AS AN ELECTRON SOURCE		
	NT(S) FOR DO/EO/US	EAM INVADIATOR WITH TILLU LIVIT	TERS AS AN ELECTRON SOURCE		
Byung-Ch	neol LEE et al.				
	Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
1. 🛂	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.				
2.	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.				
3 ·	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.				
4.	The US has been elected (Article 31).				
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))				
	a. is attached hereto (require	ed only if not communicated by the Internation	nal Bureau).		
	b. has been communicated b	by the International Bureau.			
	c. is not required, as the app	lication was filed in the United States Receiv	ving Office (RO/US).		
6.	An English language translation of the	he International Application as filed (35 U.S.0	C. 371(c)(2)).		
	a. is attached hereto.				
	b. has been previously subm	nitted under 35 U.S.C. 154(d)(4).			
_{7.}	Amendments to the claims of the Int	ternational Application under PCT Article 19	(35 U.S.C. 371(c)(3))		
	a. are attached hereto (required only if not communicated by the International Bureau).				
		d by the International Bureau.			
		wever, the time limit for making such amendr	ments has NOT expired.		
	a. Last have not been made and	d. have not been made and will not be made.			
8.	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).				
9.	An oath or declaration of the invento				
10.	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).				
	11 to 20 below concern document(s) or information included:			
11.	An Information Disclosure Statemen	t under 37 CFR 1.97 and 1.98.			
12.	An assignment document for record	ing. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.		
13.	A preliminary amendment.				
14.	An Application Data Sheet under 37 CFR 1.76.				
15.	A substitute specification.				
16.	A power of attorney and/or change of address letter.				
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.				
18. 🔲	A second copy of the published International Application under 35 U.S.C. 154(d)(4).				
19. 🔲	A second copy of the English langua	age translation of the international application	n under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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U.S. APPLICATION NO. (if known, see 37 CFR 1.	5) INTERNATIONAL AF	PPLICATION NO.	ATTORNEY'S DO	CKET NUMBER			
U.S. APPLICATION NO. (if known, see 37 CFR 1.	PCT/KR2005/000650	PCT/KR2005/000650		1455-062610			
Other items or information: International Preliminary Report on Patentability with Annexes and Amended Sheets of the International Application (8 pp.) Abstract page for insertion into application (1 sheet)							
The following fees have been submitted	· · · · · · · · · · · · · · · · · · ·	- ·	CALCULATIONS	PTO USE ONLY			
21. Basic national fee (37 CFR 1.492(a))	\$ 300.00						
22.							
If the written opinion prepared by ISA/US or the in by IPEA/US indicates all claims satisfy pro All other situations	\$ 200.00						
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International IPEA/US indicates all claims satisfy provided Search fee (37 CFR 1.445(a)(2)) has been paid or international Searching Authority	\$ 400.00						
TOTAL OF 21, 22 and 23 =			\$ 900.00				
Additional fee for specification and drawings f sequence listing in compliance with 37 CF electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 she							
21 - 100 = 0 /50 =	0	x \$250	\$ 0.00	1			
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).							
CLAIMS NUMBER FILED	NUMBER EXTRA	RATE	\$				
Total claims 15 - 20 =	0	x \$ 50	\$ 0.00				
Independent claims 2 - 3 =	0	x \$200	\$ 0.00				
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360	\$ 0.00				
Applicant elaima amall antitu etatua Con 27 C	\$ 1,030.00						
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.							
	\$ 515.00						
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).							
	\$ 515.00						
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + 0.00							
TOTAL FEES ENCLOSED = \$ 515.00							
			Amount to be refunded:	\$			
			Amount to be charged	\$			

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a.	Account No. 23-0650 A duplicate copy of thi	any additional fees which mais sheet is enclosed. G: Information on this form m	to cover the above fees. ay be required, or credit any overpayment to Deposit nay become public. Credit card information should not		
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO: Kent E. Baldauf The Webb Law Firm 700 Koppers Building 436 Seventh Avenue Pittsburgh, PA 15219-1845 Telephone: (412) 471-8815 Facsimile: (412) 471-4094			SIGNATURE Kent E. Baldauf NAME 25,826 REGISTRATION NUMBER		

10/591894 IAP9 Rec'd PCT/PTO 07 SEP 2006

PATENT APPLICATION/PCT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:	ATTORNEY'S DOCKET NUMBER
Byung-Cheol LEE et al.	1455-062610
PCT/KR2005/000650	
	TRON BEAM IRRADIATOR WITH FIELD ELECTRON SOURCE"
MAIL STOP PCT	
Commissioner for Patents	
P. O. Box 1450	
Alexandria, VA 22313-1450	
EXPRESS MA	AIL CERTIFICATE
"Express Mail" Label Number EV9086952	32US
Date of Deposit September	7, 2006
I hereby certify that the following at	tached paper or fee
 A Filing Under 35 U.S.C. 371 (3 pp. – Application Data Sheet (4 pp.); Preliminary Amendment (9 pp.); Abstract Insertion Page (1 p.); 	
International Search Report, Specific	No. WO 2005/086201 A1 Front Page and ation, Claims, Abstract and Drawings (21 pp.); n Patentability with Annexes and Amended
-	es Postal Service "Express Mail Post Office to on the date indicated above and is addressed to the

Kimberly N. Welday

(Typed name of person mailing paper or fee)

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